

Engine does not restart from ECO stop - Hybrid system (Gears symbol) malfunction indicator in instrument cluster

Topic number	LI15.30-P-078376
Version	1
Function group	15.30 - Starter
Date	9/20/24
Validity	Model year 2023 passenger car with engine M256
Reason for change	

Complaint

Engine does not restart from ECO start.

Hybrid system malfunction (Gears symbol) in instrument cluster.

Fault codes below may be stored in ISA control unit.

P0A44B2- Drive motor "A" Position Sensor Circuit Overspeed. The speed is below the threshold value.

P0AFB00- The power supply of high voltage on-board electrical system is too high.



Attachments

File	Description
Hybrid system malfunction.png	



Cause

Reduced current output to ISA during ECO start.

Remedy

If additional faults are stored for 48V system components, process these first.

Update software of ISA control unit.

New software numbers - A2569022304 A2569033903

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle’s warranty in any way.

Symptoms
Power generation > Engine management > Engine running > Stalls/goes out
Power generation > Engine management > Engine start/stop > Does not start
Power generation > Engine management > Engine start/stop > No automatic engine start
Power generation > Engine management > Function > Malfunction

Control unit/fault code	
Control unit	Fault text
N129 - Integrated starter alternator (ISA) (ISG48V1)	P0AFB00 - The power supply of the high-voltage on-board electrical system is too high. _
	P0A44B2 -

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note

